

CORRECTED VERSION

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
5 February 2004 (05.02.2004)

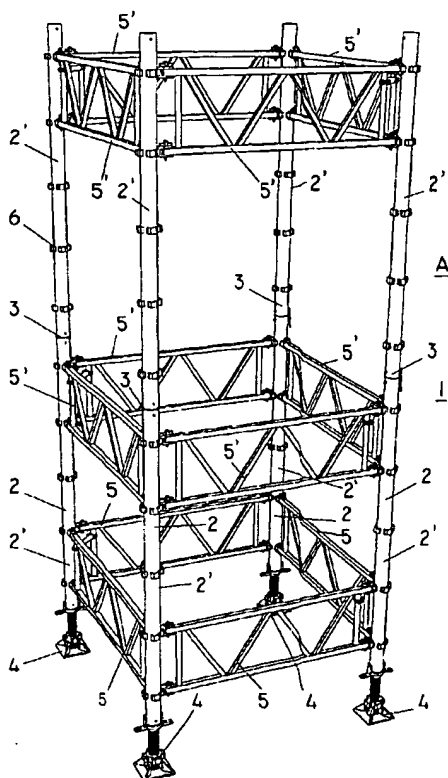
PCT

(10) International Publication Number  
**WO 2004/011741 A3**

- (51) International Patent Classification<sup>7</sup>: E04G 11/48, 5/02, 7/08
- (21) International Application Number: PCT/NL2003/000543
- (22) International Filing Date: 25 July 2003 (25.07.2003)
- (25) Filing Language: Dutch
- (26) Publication Language: English
- (30) Priority Data: 1021191 31 July 2002 (31.07.2002) NL
- (71) Applicant (for all designated States except US): SCAFOM INTERNATIONAL B.V. [NL/NL]; De Kempen 5, NL-6021 PZ Budel (NL).
- (72) Inventor: BRINKMANN, Frans [NL/NL]; De Kempen 5, NL-6021 PZ Budel (NL).
- (74) Agent: KLOOSTER, Ir., J., H.; Muller & Eilbracht B.V., P.O. Box 1080, NL-2260 BB Leidschendam (NL).
- (81) Designated State (national): US.
- (84) Designated States (regional): European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR).
- Published:  
— with international search report
- (88) Date of publication of the international search report: 29 April 2004

[Continued on next page]

(54) Title: MODULAR HEAVY DUTY SUPPORT SYSTEM



(57) Abstract: The invention relates to a modular HD (Heavy Duty) support system (1) having a strongly increased resistance to breaking strain and strain of flexure for the support of very huge and heavy shuttering for use in modern building. This module comprises vertical upright assembly systems (2) consisting of upright elements (2') with connecting members (3) and intermediate frames (5). The bottom part and/or top part of each upright assembly (2) is provided with a spindle assembly (4), which is capable of carrying a high load and with adjustable butterfly nuts (20) and coupling pieces (21). In upward direction the upright assembly systems (2) are extended by means of connecting pieces (3) provided with locking pins (8a, 8b) for obtaining a connection which is resistant to tensile strain. In lateral direction the upright assembly systems (2) are intercoupled by means of a coupling assembly comprising a screw member (46) and claws (47, 48) positioned on intermediate frames (5) and also C-shaped coupling members positioned on upright elements (2'), but also on a coupling piece (21) of a spindle assembly (4) for reducing the flexing length thereof. The module (1) is transportable as a whole in assembled position and even in height adjustable under load. The module (1) may be in height and also in width and in length be extended moreover by practically an unlimited number of upright assembly systems (2) and intermediate frames (5).

WO 2004/011741 A3